IN THE CLAIMS

Please amend the claims as follows:

1.   (Currently Amended)   ~~Data~~ A data representation apparatus

for representing data by means of an audio signal, said data

representation apparatus comprising:

—   an audio processing unit ~~arranged to deliver~~ for delivering

5   the audio signal with a characteristic dependent upon a

~~positionless~~ data ~~variable capable of~~ signal having at least a first

value and a second value~~,~~; and

~~characterized in that~~

—   ~~the data representation apparatus comprises~~ a mapping

10   unit~~,~~ ~~arranged to map~~ for mapping the first value of the data

~~variable~~ signal to a first position in three-dimensional space, and

the second value of the data ~~variable~~ signal to a second position

in three-dimensional space~~, and~~,

—   wherein the audio processing unit ~~is arranged to~~

15   ~~change~~ changes the characteristic of the audio signal, resulting in

the audio signal appearing, to a user listening to the audio

signal, to originate from the first position ~~for~~ when the data

~~variable having~~ signal has the first value, ~~respectively~~ and from

the second position ~~for~~ when the data ~~variable having~~ signal has

20   the second value~~, to a user listening to the audio signal~~.

2.   (Currently Amended)   ~~Data~~ The data representation apparatus

as claimed in claim 1, wherein the audio processing unit comprises

a filter for applying a head related transfer functions to an input
audio signal to obtain the output audio signal appearing to
originate from the first position ~~respectively~~ and the second
position.

3. (Currently Amended)   ~~Data~~ The data representation apparatus
as claimed in claim 1, ~~comprising~~ wherein said data representation
apparatus further comprises a data ~~variable~~ signal distributor~~,~~
~~capable of~~ for delivering the data ~~variable~~ signal, derivable from
a measurement from a measurement device, to the audio processing
unit.

4. (Currently Amended)   ~~Data~~ The data representation apparatus
as claimed in claim 1, wherein the mapping unit ~~is arranged to~~
~~map~~ maps a collection of nominal values of the data ~~variable~~ signal
to predetermined regions of three-dimensional space.

5. (Currently Amended)   ~~Data~~ The data representation apparatus
as claimed in claim 1, wherein the mapping unit ~~is arranged to~~
~~map~~ maps a collection of numerical values of the data ~~variable~~
signal to positions on a curvilinear locus in three-dimensional
space.

6. (Currently Amended)   ~~Data~~ The data representation apparatus
as claimed in claim 1, wherein said data representation apparatus
further comprises specification means ~~are comprised, arranged to~~

allow a specification offor specifying a preferred mapping for the

5   mapping unit.

7.   (Currently Amended)   Data The data representation apparatus

as claimed in claim 1, wherein said data representation apparatus

further comprises selection means are present, arranged to allowfor

enabling presentation of a first set of data variable signal values

5   by a first type of the audio signal and a second set of data

variable signal values by a second type of the audio signal.

8.   (Currently Amended)   A system for representing data by means

of an audio signal, said system comprising:

—   an audio source arranged to deliverfor supplying an input

audio signal;

5   —   a source of a data variable capable of signal having at

least a first value and a second value;

—   a sound production device; and

—   a data representation apparatus for representing data by

means of the audio signal,

10   wherein the data representation apparatus comprisingcomprises:

_____an audio processing unit arranged to deliverfor providing

the audio signal to the sound production device with a

characteristic dependent on the value of the data variablesignal,;

and

15   characterized in that

—   ~~the data representation apparatus further comprises~~ a mapping unit~~, arranged to map by means of a~~ for mapping the first value of the data ~~variable~~ signal to a first position in three-dimensional space, and the second value of the data ~~variable~~ signal to a second position in three-dimensional space~~, and~~,

—   wherein the audio processing unit ~~is arranged to change~~ changes the characteristic of the audio signal, resulting in the audio signal appearing, to a user listening to the audio signal, to originate from the first position ~~for~~ when the data ~~variable having~~ signal has the first value ~~respectively,~~ and from the second position ~~for~~ when the data ~~variable having~~ signal has the second value~~, to a user listening to the audio signal~~.

9.   (Currently Amended)   A method of representing data by means of an audio signal, said method comprising the steps of:

—   ~~an audio~~ processing ~~step and~~ delivering the audio signal with a characteristic dependent on a data ~~variable, capable of~~ signal having at least a first value and a second value~~,~~; ~~and characterized in that~~

—   ~~a~~ mapping ~~is effected mapping~~ the first value of the data ~~variable~~ signal to a first position in three-dimensional space, and the second value of the data ~~variable~~ signal to a second position in three-dimensional space~~, and~~,

—   wherein the ~~audio~~ processing and delivering step ~~changes~~ includes changing the characteristic of the audio signal, resulting in the audio signal appearing, to a user listening to the audio

signal~~,~~ to originate from the first position ~~for~~ when the data ~~variable having~~signal has the first value ~~respectively,~~ and from the second position ~~for~~ when the data ~~variable having~~signal has the second value~~, to a user listening to the audio signal~~.

10. (Currently Amended)   A computer-readable medium having stored thereon a computer program for execution by a processor, enabling the processor to execute the method of claim 9.

11. (Cancelled).